

## ABSTRACT OF THE DISCLOSURE

If a master data transmission apparatus is included in an optical data transmission system, a clock recovered by a first clock recovery unit based on an optical signal received from the optical data transmission system is selected by a clock selecting unit. If the master data transmission apparatus is included in an electrical data transmission system, a clock recovered by a second clock recovery unit based on a lock signal received from the electrical data transmission system is selected by the clock selecting unit. A mapping unit, a digital filter, and a D/A converting unit perform processing in accordance with the clock selected by the clock selecting unit.